

WHAT IS CLAIMED IS:

1. A mobile terminal device having a route guiding function of guiding a route by obtaining map information from a server system via a radio communication network, comprising:
  - 5 a position detecting unit which detects a current position of the mobile terminal device;
  - a bearing detecting unit which detects a first bearing to which the mobile terminal device is directed;
  - a map information acquiring unit which transmits
  - 10 predetermined specific information to identify a destination and positional information of the current position to the server system, and acquires map information on a section containing the destination and the current position from the server system;
  - a target bearing calculating unit which calculates a
  - 15 second bearing from a current position to the destination based on the positional information and the specific information;
  - a displaying unit which displays a map based on the acquired map information, displays predetermined icon images at a position of the destination and the current position
  - 20 respectively, and displays an icon image indicating the first bearing; and
  - a target capturing unit which produces a sound effect in response to a difference between the first and second bearings.
- 25 2. A mobile terminal device having a route guiding function according to claim 1, wherein the target capturing unit produces different melodies in response to the difference between the

first and second bearings.

3. A mobile terminal device having a route guiding function according to claim 1, wherein the target capturing unit blinks  
5 the icon image displayed at the position of the destination when the first bearing coincides with the second bearing.

4. A mobile terminal device having a route guiding function of guiding a route by obtaining map information from a server  
10 system via a radio communication network, comprising:

a position detecting unit which detects a current position of the mobile terminal device;

a bearing detecting unit which detects a first bearing to which the mobile terminal device is directed;

15 a map information acquiring unit which transmits predetermined specific information to identify a destination and positional information on the current position to the server system, and acquires map information of a section containing the destination and the current position from the server system;

20 a target bearing calculating unit which calculates a second bearing from the current position to the destination based on the positional information and the specific information;

a displaying unit which displays a map based on the  
25 acquired map information, displays a predetermined icon image at the current position, and displays an icon image indicating the first bearing and an icon image indicating the second

bearing; and

a target capturing unit which produces a sound effect in response to a difference between the first and second bearings.

5 5. A mobile terminal device having a route guiding function according to claim 4, wherein the target capturing unit produces different melodies in response to the difference between the first and second bearings.

10 6. A route guiding method utilizing a mobile terminal device including a position detecting unit for detecting a current position of the mobile terminal device and a bearing detecting unit for detecting a first bearing to which the mobile terminal device is directed to the mobile terminal device, and a server  
15 system, to which the mobile terminal device is connected via a radio communication network and which stores a map database including map information including map image data and information to identify a position on a map, the method comprising the steps of:

20 causing the server system to execute the steps of,  
searching the map information containing a destination and the current position from the map database based on positional information of the current position and specific information of the destination which are transmitted from the  
25 mobile terminal device, and

sending the searched map information to the mobile terminal device; and

causing the mobile terminal device to execute the steps  
of,

transmitting predetermined the specific information  
designated by a user to the server system,

5           transmitting the positional information of the  
current position detected by the position detecting unit to the  
server system,

receiving the map information sent from the server  
system,

10           calculating a second bearing from the current  
position to the destination based on the positional information  
and the specific information,

displaying a map based on the acquired map information,  
displaying predetermined icon images to overlap with a position  
15 of the destination and the current position, and displaying an  
icon image indicating the first bearing, and

producing a sound effect in response to a difference  
between the first and second bearings.

20   7.    A route guiding method utilizing a mobile terminal device  
including a position detecting unit for detecting a current  
position of the mobile terminal device and a bearing detecting  
unit for detecting a first bearing to which the mobile terminal  
device is directed to the mobile terminal device, and a server  
25 system, to which the mobile terminal device is connected via  
a radio communication network and which stores a map database  
including map information including map image data and

information to identify a position on a map, the method comprising the steps of:

- causing the server system to execute the steps of,
  - searching the map information containing a
    - 5 destination and the current position from the map database, based on positional information of the current position and specific information of the destination which are transmitted from the mobile terminal device, and
  - 10 sending the searched map information to the mobile terminal device; and
  - causing the mobile terminal device to execute the steps of
    - transmitting the specific information designated by a user to the server system,
    - 15 transmitting the positional information of the current position detected by the position detecting unit to the server system,
    - receiving the map information sent from the server system,
    - 20 calculating a second bearing from the current position to the destination based on the positional information and the specific information,
    - displaying a map based on the acquired map information, displaying a predetermined icon image at the current position,
    - 25 and displaying an icon image indicating the first bearing and an icon image indicating the second bearing, and
    - producing a sound effect in response to a difference

between the first and second bearings.

8. A computer readable recording medium storing a program for guiding a route with utilizing a mobile terminal device including a position detecting unit for detecting a current position of the mobile terminal device and a bearing detecting unit for detecting a first bearing to which the mobile terminal device is directed to the mobile terminal device, and a server system, to which the mobile terminal device is connected via a radio communication network and which stores a map database including map information including map image data and information to identify a position on a map, wherein

the program causes the server system to execute the steps of,

15 searching the map information containing a destination and the current position from the map database based on positional information of the current position and specific information of the destination which are transmitted from the mobile terminal device, and

20 sending the searched map information to the mobile terminal device; and

the program causes the mobile terminal device to execute the steps of,

transmitting predetermined the specific information designated by a user to the server system,

transmitting the positional information of the current position detected by the position detecting unit to the

server system,

receiving the map information sent from the server  
system,

calculating a second bearing from the current  
5 position to the destination based on the positional information  
and the specific information,

displaying a map based on the acquired map information,  
displaying predetermined icon images to overlap with a position  
of the destination and the current position, and displaying an  
10 icon image indicating the first bearing, and

producing a sound effect in response to a difference  
between the first and second bearings.

9. A computer readable recording medium storing a program  
15 for guiding a route with utilizing a mobile terminal device  
including a position detecting unit for detecting a current  
position of the mobile terminal device and a bearing detecting  
unit for detecting a first bearing to which the mobile terminal  
device is directed to the mobile terminal device, and a server  
20 system, to which the mobile terminal device is connected via  
a radio communication network and which stores a map database  
including map information including map image data and  
information to identify a position on a map, wherein

the program causes the server system to execute the steps  
25 of,

searching the map information containing a  
destination and the current position from the map database,

based on positional information of the current position and specific information of the destination which are transmitted from the mobile terminal device, and

5        sending the searched map information to the mobile terminal device; and

      the program causes the mobile terminal device to execute the steps of

      transmitting the specific information designated by a user to the server system,

10        transmitting the positional information of the current position detected by the position detecting unit to the server system,

      receiving the map information sent from the server system,

15        calculating a second bearing from the current position to the destination based on the positional information and the specific information,

      displaying a map based on the acquired map information, displaying a predetermined icon image at the current position, and displaying an icon image indicating the first bearing and an icon image indicating the second bearing, and

20        producing a sound effect in response to a difference between the first and second bearings.